Dario Gjorgjevski

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Education

Ss. Cyril and Methodius University   2013-09-15/2018-01-30
Computer Science and Engineering   Bachelor's degree
GPA of 10.00, on a scale from 5 (E/F) to 10 (A)

> Strong background in linear algebra, statistics, stochastic processes, compilers, machine learning, and cryptography. Bachelor's thesis on the topic of code-based cryptography, titled "Error-Correcting Codes in the Rank Metric (With Applications to Cryptography)" and supervised by prof. Simona Samardjiska.

Over 40 Massive Open Online Courses on topics related to game theory, probabilistic graphical models, Bayesian statistics, combinatorics, programming language theory, etc. Certifications available upon request.

Experience

Infinite Analytics, Inc.   2017-11-20/2018-06-15
Data Science/Engineering

- Scraping of clients' websites and product catalogs using Scala/Akka and Python/Scrapy.
- Dynamic configuration of upstreams with persistence across restarts in NGINX Plus.
- Acquisition, monitoring, analysis, and visualization of server utilization data using Python, the Elastic stack, NGINX Plus, and Google Stackdriver.
- Behavior-driven development of a Scala/Apache Spark program to compute and visualize *customer insights* using over 2 billion facts about 50 million customers.

École polytechnique fédérale de Lausanne (LCA2)   2017-07-07/09-20
Research Internship
Supervisors: Jagdish Prasad Achara and prof. Jean-Yves Le Boudec

- Implementing new functionality and refactoring old code using Python/Mininet in T-RECS, a *Software Testbed for Multi-Agent Real-Time Control of Electric Systems*.
- Time series modeling of smart grid power traces at a timescale of 20 ms using approaches based on wavelets and long-range dependence.
- Increasing the resolution of mean-aggregated data using deep learning for super-resolution.

Ss. Cyril and Methodius University   2016-10/2017-02
Computer Laboratory Assistantship

Full responsibility for conducting computational exercises and homework assignments in:

Linear Algebra	Least squares, linear codes, and low-rank approximations with Mathematica® and SageMath.
Probability and Statistics	Data visualization, Monte Carlo methods, statistical inference, hypothesis testing, and linear regression with R.
Databases	ER modeling, relational algebra, and ANSI SQL.

Research Internship
Supervisors: Sonia Bogos and prof. Serge Vaudenay

Studying and improving upon the complexity of state-of-the-art solving algorithms for the *Learning With Errors* (LWE) problem.

Honors and Achievements

- Best student paper at the 14th International Conference on Informatics and Information Technologies held on April 7–9, 2017 in Hotel Bistra, Mavrovo, Macedonia.

- Scholarships to attend the 2016 and 2017 editions of the Summer School on Real-World Crypto and Privacy held in Šibenik, Croatia.

- Dean's list at the Faculty for Computer Science and Engineering.

- Merit-based scholarships from the Faculty of Computer Science and Engineering, the Ministry of Education and Science of Macedonia, and the Municipality of Delčevo.

Computational Skills

Programming	– Fluent in: Python, R, Scala, SQL, Bash, Mathematica®.
	Familiar with: Java, C/C++, Lua, various Lisps, Haskell, Standard ML.
Operating Systems	– GNU/Linux (Arch Linux and Debian).
Text Editors/IDEs	– GNU Emacs and IntelliJ IDEA.
Document Preparation	– (LA)TEX.
Version Control	– Git.
Miscellaneous	– The SciPy stack, scikit-learn, Keras, Scrapy, SageMath, mlr, tidyverse, JAGS, Apache Spark, HDFS, the Elastic stack, Ansible, and NGINX.

Publications

[1] **Dario Gjorgjevski** and Dejan Gjorgjevikj. "Using Distributed Representations to Identify Genders and Age Groups of Twitter Users." In: *Proceedings of the 15th International Conference on Informatics and Information Technologies* (Hotel Bistra, Mavrovo, Macedonia, Apr. 20–22, 2018). Ed. by Nataša Ilievska and Georgina Mirčeva. 2018. To be published.

[2] **Dario Gjorgjevski**. "Combining LWE-Solving Algorithms." In: *Proceedings of the 14th International Conference on Informatics and Information Technologies* (Hotel Bistra, Mavrovo, Macedonia, Apr. 7–9, 2017). Ed. by Aleksandra Popovska–Mitrovikj, Biljana Tojtovska, and Kire Trivodaliev. 2017, pp. 165–170. ISBN: 978-608-4699-07-1. eprint: http://ciit.finki.ukim.mk/data/papers/CIIT2017.pdf.